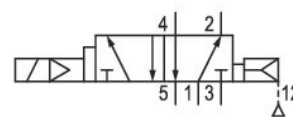


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AVENTICS Series 581 - Size 1 Standardized valves

The AVENTICS series 581 complies with the ISO 5599-1 valve standard. Due to the high degree of modularity, the series offers all valve functions, integrated throttle valves, various pilot coils and an extensive range of accessories. Qn = 950 ... 1400 l/min



Technical data

Industry

Activation

Nominal flow Qn

Switching principle

Compressed air connection output

Min. working pressure

Max. working pressure

Sealing principle

Pilot

ATEX

Standards

Pilot valve width

Valve type

Blocking principle

Connection type

Return

Compressed air connection input

Industrial

Electrically

1400 l/min

5/2, double solenoid, with differential piston

Base plate ISO 5599-1

-0.95 bar

16 bar

Soft seal

External

Internal

ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

ISO 5599-1

30 mm

Spool valve

Single base plate principle

Plate connection

Air return with differential piston

Base plate ISO 5599-1

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Compressed air connection, exhaust	Base plate ISO 5599-1
Flow conductance C	5.2 l/(s*bar)
Basic valve equipment	Basic valve without pilot valve
Min. control pressure	1.3 bar
Max. control pressure	16 bar
Min. ambient temperature	-20 °C
Max. ambient temperature	70 °C
Min. medium temperature	-20 °C
Max. medium temperature	70 °C
Medium	Compressed air
Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³
Protection class with connection	IP65
Duty cycle	100 %
Mounting screws	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.21 kg
Housing material	Aluminum
Seal material	Acrylonitrile butadiene rubber
Part No.	5811680100

Technical information

* Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil. ATEX ID: see ATEX coils catalog page.

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

5/2-directional valve, Series 581, size 1

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Dimensions

